### Installation Instructions

Perimeter

ID\_TruGroove\_Perimeter\_Drywall

# **Drywall Ceiling - Trim**

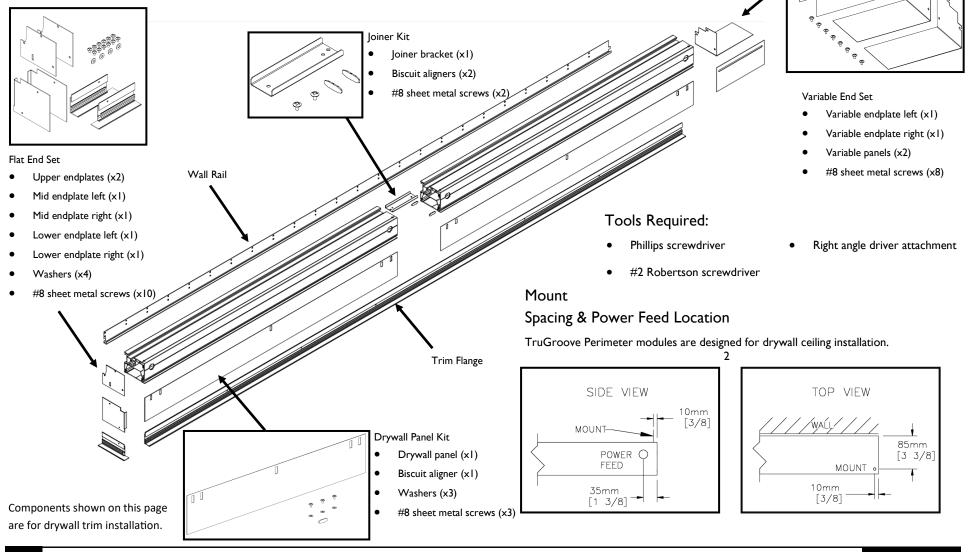
Standalone or continuous run configurations

LEDALITE

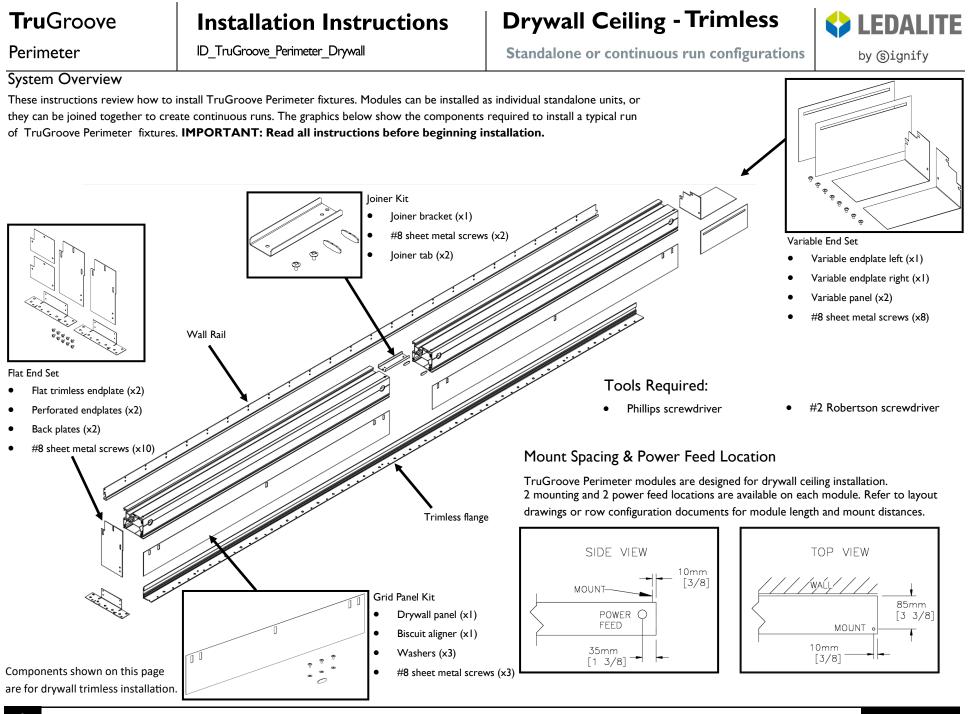
by (signify

#### System Overview

These instructions review how to install TruGroove Perimeter fixtures. Modules can be installed as individual standalone units, or they can be joined together to create continuous runs. The graphics below show the components required to install a typical run of TruGroove Perimeter fixtures. **IMPORTANT:** Read all instructions <u>including fixture/sensor wiring AND mechanical details</u> <u>before</u> beginning installation.



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Perimeter

### **Installation Instructions**

ID TruGroove Perimeter Drywall

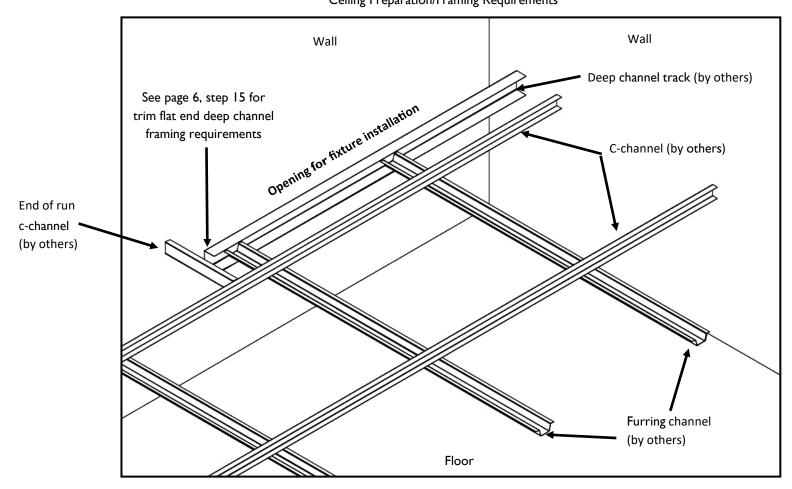
# **Drywall Ceiling**

Standalone or continuous run configurations



by (signify





Typical commercial ceiling framing components are shown in the diagram above. Refer to layout drawings or row configuration documents for module or run lengths. Refer to page 4 for required framing opening. NOTE: Above finished floor dimension (AFF) is required and used for framing and wall rail installation reference. <u>IMPORTANT</u>: For framing module ends, add 1/4" to run or module length at each end.

IMPORTANT: Deep channel track (by others) must be installed and framed to required opening shown on page 4.

IMPORTANT: These instructions cover ceiling drywall thickness of 1/2" - 5/8".

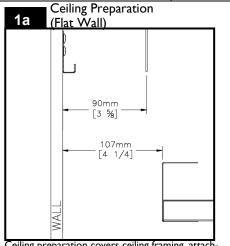
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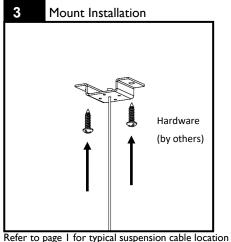
# **Installation Instructions**

Perimeter

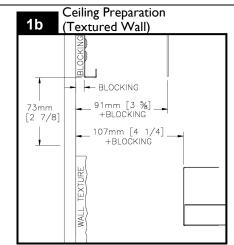
#### ID TruGroove Perimeter Drywall



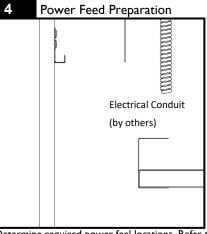
Ceiling preparation covers ceiling framing, attachment of wall rails and mounting bracket/cable installation. Above diagram covers all required dimensions for standard drywall installation. NOTE: Framed opening size must be followed for proper fit.



on each fixture housing. To install the 1st module, two brackets and suspension cables are required. When joining luminaires, only one bracket and suspension cable are required for each joining module.



Optional: Textured walls. Above diagram covers all required dimensions for standard drywall installation with a textured wall. IMPORTANT: To ensure a proper fit, blocking (by others) must be the same as wall texture.



Determine required power feel locations. Refer to page I for typical power feed locations for each housing. Prepare power feed drop conduit and suspend close to required location. Attachment to fixture module is shown in step 8.

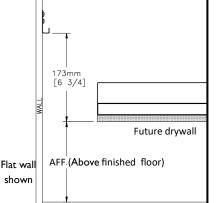
# **Drywall Ceiling**



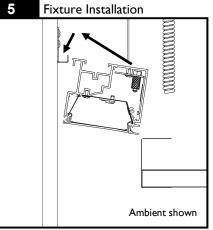
Standalone or continuous run configurations

by (signify

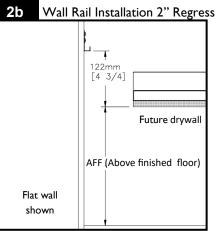




TruGroove perimeter fixture modules are available in two different above plenum heights. Refer to layout drawings for required regress for your job. Standard 4" regress is shown in above diagram. Attach wall rails (hardware by others) to wall studs. <u>at specified height from AFF dimension.</u>

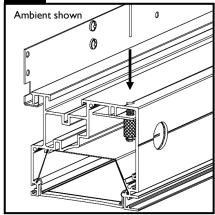


Lift fixture module past ceiling plane, Tilt as shown and engage housing hook on wall rail.



TruGroove perimeter fixture modules are available in two different above plenum heights. Refer to layout drawings for required regress for your job. Optional 2" regress is shown in above diagram. Attach wall rails (hardware by others) to wall studs. at specified height from AFF dimension.





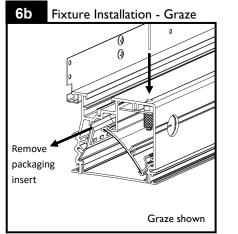
Insert suspension cables installed in step 3 through cable grippers inside fixture housing. IMPORTANT: Ensure suspension cables are vertical. Level fixture and trim excess cable to 1" below fixture. Tuck remaining cable inside fixture.



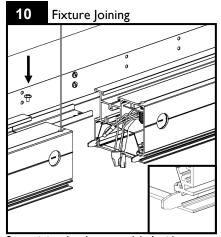
# Installation Instructions

Perimeter

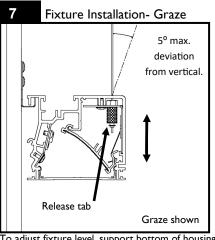
#### ID TruGroove Perimeter Drywall



Remove graze packaging insert from both ends of housing. Engage housing on wall rail. Insert suspension cables installed in step 3 through cable grippers inside fixture housing. Pull cables through and refer to next step for levelling instructions.



Secure joiner bracket to module I with screw provided. Slide module 2 on rail and engage on free end of joiner bracket. Complete all required electrical connections and tuck all wires inside both wiring cavities.



To adjust fixture level, support bottom of housing and release cable gripper plunger shown. Cable will slide freely and allow fine tuning of housing position. Repeat process at each cable gripper location using same procedure to ensure housing is level.

11 Fixture Joining

IMPORTANT: Before sliding fixtures together, make sure all wires are properly tucked inside fixture wiring cavities. Slide fixture housings together and attach second joiner bracket screw.

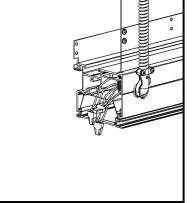
# **Drywall Ceiling**



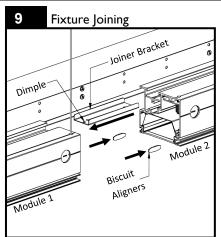
Standalone or continuous run configurations

by (s)ignify



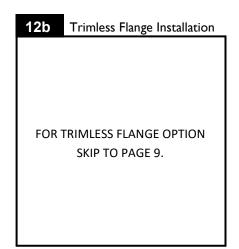


Break 7/8" knockout at end of housing at required power feed location. Install conduit connector (by others) and complete electrical connections. For a row end, tuck wires inside wiring cavity and follow endplate instructions starting in step 13.



Slide dimpled side of jointer bracket approximately I inch inside top channel of module 1. Tap biscuit aligners just past half way inside module 2 as shown.

12a	Trim Flange Installation				
FOR TRIM FLANGE OPTION					
	GO TO PAGE 6.				



Page 5

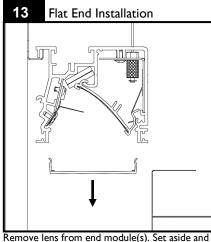
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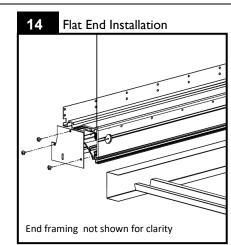
# Installation Instructions

Perimeter

#### ID TruGroove Perimeter Drywall



keep in a clean area until end of installation.



Attach upper endplate to housing with screws provided.

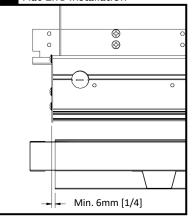
# **Drywall Ceiling - Trim**



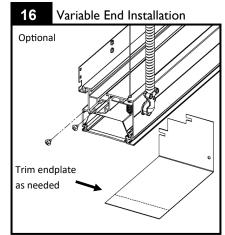
Standalone or continuous run configurations

by (Signify

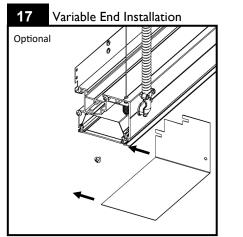
#### 15 Flat End Installation



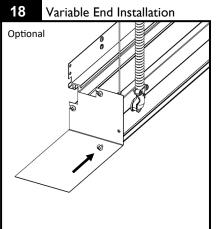
At module ends, trim deep channel track as shown to allow lower endplate installation later.



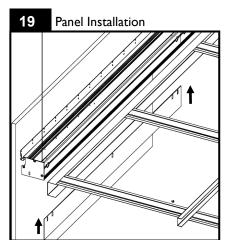
After fixture modules have been installed and levelled, measure distance between wall and fixture end. Trim variable endplate as required. <u>INSTALLATION</u> <u>TIP</u>: Before next step, attach 2 screws shown above to housing. Fully tighten then back off 1/2 turn.



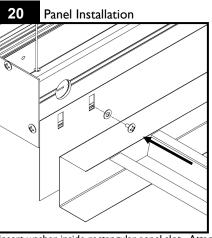
After variable endplate has been trimmed to size, slide endplate toward wall guiding open slots towards screws installed in step 16. Hook slots on screws and push all the way towards wall.



Check that endplate edge is flush with housing and attach final screw to lock in place.



Starting at one end, align first grid panel with end of housing and lift in position.



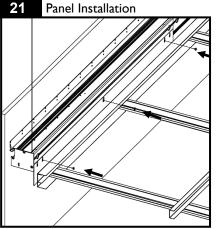
Insert washer inside rectangular panel slot. Attach to housing using screw provided. Fully tighten screw then back of 1/4 turn to allow panel to glide up and down without play.



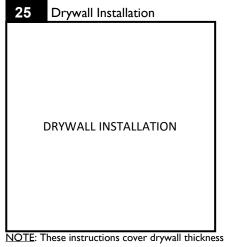
Perimeter

# Installation Instructions

ID TruGroove Perimeter Drywall

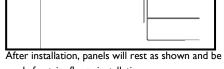


Repeat screw and washer installation procedure along panel length as shown. Repeat panel installation to complete required run.



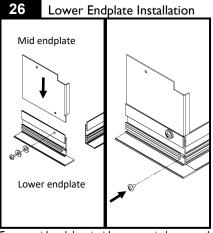
of 1/2" - 5/8". Install drywall and trim flush to framing opening.

# 22 Panel Installation $\bigcirc$ $\bigcirc$



ready for trim flange installation. IMPORTANT: As panels are not accessible after

drywall installation, ensure all panels can glide up and down freely without play. Adjust as needed.



Engage mid endplate inside groove in lower endplate Use washers (x2) and screw provided to join together as shown. Attach endplate to trim flange end with screw provided. IMPORTANT: Before tightening screw, make sure endplate and flange are aligned.

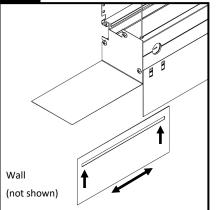
# **Drywall Ceiling - Trim**



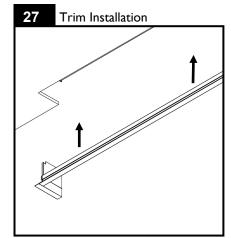
Standalone or continuous run configurations

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#### 23 Variable Panel Installation



Raise variable and full size panel to housing level. Align full size panel with end of housing and overlap variable panel on top. Support in position for attachment.

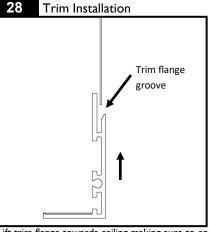


Starting at one end, raise trim flange to ceiling opening and guide against outside edge of fixture endplate panel edge into trim flange groove. installed in steps 14-15.

# 24 Variable Panel Installation Wall (not shown)

Follow instructions in step 20 and secure both panels together to housing as shown. Fully tighten screws and back off 1/4 turn to allow panels to glide freely without play. <u>NOTE</u>: When installed, the variable panel will match the length of variable endplate installed in steps 16-18.

Trim Installation



Lift trim flange towards ceiling making sure to engage

Page 7

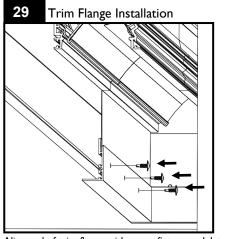
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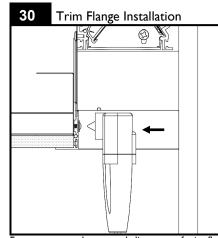
# Installation Instructions

Perimeter

### ID TruGroove Perimeter Drywall



Align end of trim flange with upper fixture endplate. Using a right angle driver, secure trim flange to deep channel track with wafer head screws (by others).



For proper attachment and alignment of trim flange sections, install screws at all hole locations.

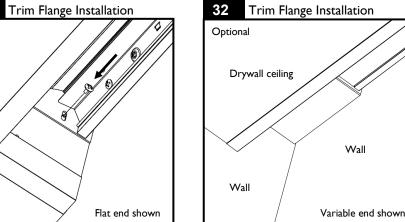
# **Drywall Ceiling - Trim**

31

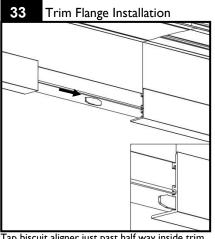


Standalone or continuous run configurations



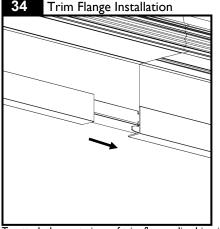


For a wall end, or wall to wall installation, install first trim flange section as shown in steps 29-30. To join trim flange sections, follow steps 33-34. Measure and cut the last section of trim flange to fit at other wall end.

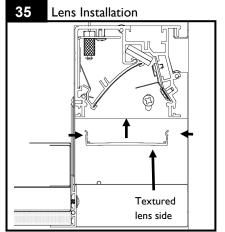


Tap biscuit aligner just past half way inside trim flange as shown.

**INSTALLATION TIP:** When closing a run, tap biscuit aligner more than half way to create sufficient clearance for last trim flange section.



To attach the next piece of trim flange, align biscuit aligner with groove, slide trim flange against installed trim flange and attach with screws as shown in steps 29-30. Repeat steps to install all remaining trim flange sections.



From inside ceiling opening, secure lower endplate

to upper endplate using screw provided.

Re-install lens removed in step 13. For graze version shown above, position textured side of lens away from wall. INSTALLATION TIP: Start on one end, squeeze lens together and insert into housing. Gently push lens bottom up one inch at a time until done.

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Perimeter

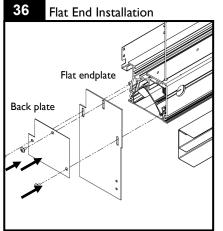
# Installation Instructions

Flat End Installation

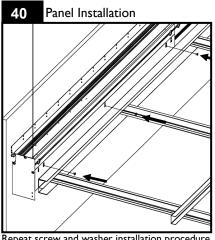
0

ID TruGroove Perimeter Drywall

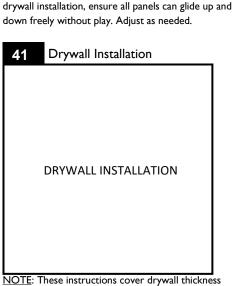
37



Install flat endplate and back plate to housing with screws provided. Fully tighten screws then back off 1/2 turn. Ensure the flat endplate can glide up and down without play.



Repeat screw and washer installation procedure along panel length as shown. Repeat panel installation to complete required run.



After installation, flat endplate will rest as shown and

IMPORTANT: As panels are not accessible after

be ready for trimless flange installation.

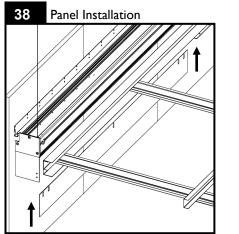
of 1/2" - 5/8". Install drywall and trim flush to framing opening.

# **Drywall Ceiling - Trimless**



Standalone or continuous run configurations

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Starting at one end, align first grid panel with end of housing and lift in position.

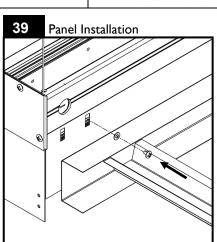
Flat End Installation

Wall

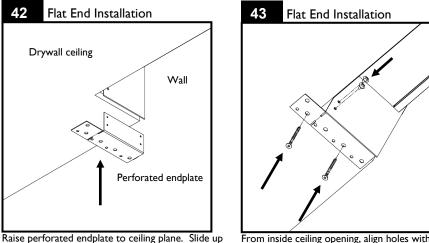
Drywall ceiling

between drywall and flat endplate.

42



Insert washer inside rectangular panel slot. Attach to housing using screw provided. Fully tighten screw then back of 1/4 turn to allow panel to glide up and down without play.



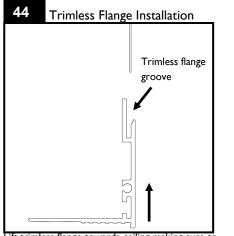
From inside ceiling opening, align holes with flat endplate and attach with screws (x2) provided. Lift against drywall and secure to structure using drywall screws (by others).



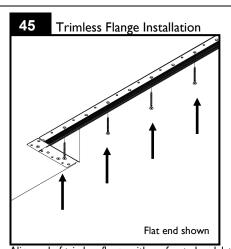
# Installation Instructions

Perimeter

#### ID TruGroove Perimeter Drywall



Lift trimless flange towards ceiling making sure to engage panel edge into trimless flange groove.



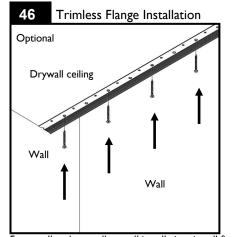
Align end of trimless flange with perforated endplate. Push trimless flange tight against drywall and attach to structure using drywall screws (by others).





Standalone or continuous run configurations

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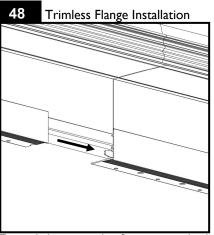
For a wall end, or wall to wall installation, install first trimless flange section as shown in steps 43-44. To join trimless flange sections, follow steps 47-49. Measure and cut the last section of trimless flange to fit at other wall end.

Drywall Mudding/Finishing

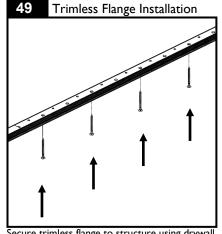


Tap biscuit aligner just past half way inside trimless flange as shown.

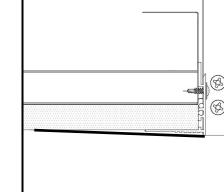
**INSTALLATION TIP:** When closing a run, tap biscuit aligner more than half way to create sufficient clearance for last trimless flange section.



To attach the next trimless flange section, align biscuit aligner groove and slide trimless flange tightly against installed section.



#### Secure trimless flange to structure using drywall screws as shown in step 44. Repeat steps to install all remaining trimless flange sections.



50

Mud, sand and paint ceiling as required.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interreference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

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### Installation Instructions

Perimeter

ID\_TruGroove\_Perimeter\_Drywall

# **Drywall Ceiling - Trimless**

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Important Consideration When Using Sensor in a Row

pink) control wires to an external dimming switch.

an external on/off switch.

so as not to break the continuous lens.

used, note the same wiring rules will apply.

For fixtures with wireless sensors (CS, SB or RA options):

**DO NOT** connect fixture purple and brown (or purple & grey/

Fixture mains wiring should not be connected to a circuit with

For best aesthetic condition, place sensors at ends of row only

For better occupancy coverage in longer rows, sensors may be

placed mid run, but keep in mind this will break the continuous

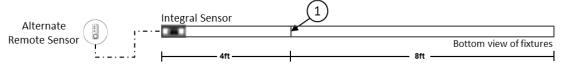
lens into discrete sections. Alternatively, remote sensors may be

#### **Sensor in Rows**

#### Single Sensor Controlling Whole Row

I. Purple & brown (or purple & grey/pink) control wires **MUST** be connected between fixtures. Note :

- A maximum of 8 drivers can be wired to 8 sensors; confirm fixture driver count with factory.



#### Multiple Sensors Controlling Separates Zones in a Row

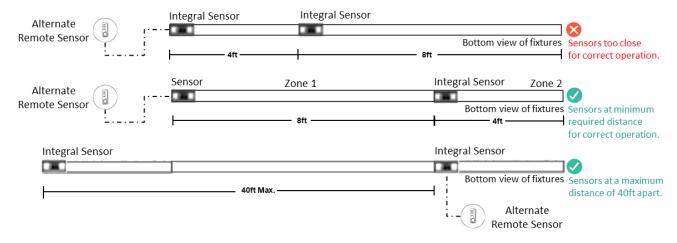
2. Purple & brown (or purple & grey/pink) control wires <u>MUST NOT</u> be connected between zones. Notes :

- A maximum of 8 drivers can be wired to one sensor; confirm fixture driver count with factory.
- Only one sensor is allowed on a wired zone. (Sensors can be paired together wirelessly via a mobile app).



#### Sensor Spacing

- For correct operation, sensor should be placed a minimum distance of 8ft apart.
- Wireless sensor should be placed no further than 40ft apart for good wireless signal connection.



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### Installation Instructions

Perimeter

ID\_TruGroove\_Perimeter\_Drywall

### Drywall Ceiling - Trimless

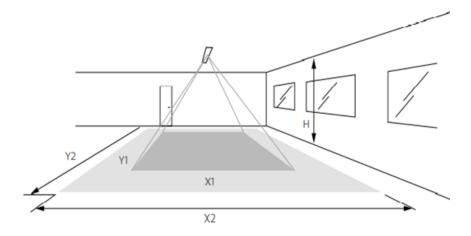
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Standalone or continuous run configurations

by (signify

#### Occupancy Sensor Coverage:

Note: Longer dimension of detection area (Y1, Y2) is parallel to longer dimension of the luminaire.



#### **Daylight Sensor**

The light sensor measures the total amount of light in a circular field of approximately 80% of the PIR detection area. The following aspects should be observed during installation:

- Minimum distance from the window ≥ 2ft (0.6m).
- Prevent light reflections from outside entering the sensor (for example sunlight reflection on a car hood) as this will lead to incorrect light regulation.

As a guideline the formula 0.72 X H can be used to calculate the minimum distance between the window and sensor whereby H is the height from the bottom of the window to the sensor.

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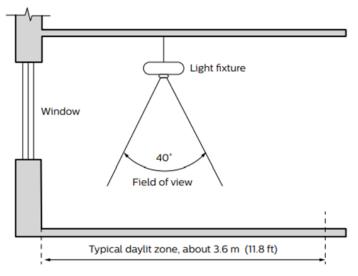


Height	Minor movement		Major movement	
h	X1	Y1	X2	Y2
2.4 m (7.9 ft)	1.9 m (6.2 ft)	2.9 m (9.5 ft)	2.9 m (9.5 ft)	4.3 m (14.1 ft)
3 m (9.8 ft)	2.4 m (7.9 ft)	3.6 m (11.8 ft)	3.6 m (11.8 ft)	5.4 m (17.7 ft)

The detection area for the movement sensor can be roughly divided into two parts;

- Minor movements (person moving ≤ 3ft/s or 0.9m/s).
- Major movements (person moving ≥ 3ft/s or 0.9m/s).

#### Photosensor spatial response



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